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**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Previously Presented) A communications system, comprising:  
  
a base station configured to output first digital in phase and quadrature phase (I/Q) signals;  
  
an optical connecting unit configured to convert the first digital I/Q signals into optical signals and output the converted optical signals through an optical cable; and  
  
an optical base station coupled to receive the optical signals through the optical cable and configured to convert the optical signals into second digital I/Q signals, and convert the second digital I/Q signals into first RF signals for transmission.
  
2. (Previously Presented) The system of claim 1, wherein the optical base station comprises:  
  
an optical transceiver configured to convert the optical signals received through the optical cable into the second digital I/Q signals;  
  
a multiplexer/demultiplexer unit configured to demultiplex the second digital I/Q signals outputted from the optical transceiver;